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Preliminary kinematic, dynamic and load calculations performed by Inter Motor Group LLC, determined the main parameters of a promising new generation four-cylinder diesel ICE for a truck with a capacity of 300 hp.

The calculation of the parameters of the ICE of the New Generation is associated with an assessment of the effectiveness of its use in the conditions of operation of a dump truck.

The purpose of the calculations is a preliminary assessment of the specific mass, overall, traction and fuel and economic indicators of the ICE of the New Generation installed on a dump truck.

The calculation results will allow us to evaluate its advantages in operating conditions, taking into account the restrictions imposed by traffic rules and road operating conditions.

ICE for dump truck	ICE New Generation	ICE KAMAZ 910.12-450
Engine displacement, l	5.98	11.95
Rated power, h.p.	450	450
at a frequency of rotation, rpm	1050	1900
Maksim. torque, N•m	4120	2059
at a frequency of rotation, rpm	650	1300
Fuel consumption, l/100 km	24.7	47.3